

Application No. 10/029,350
Docket No. 13DV-14197
Amendment dated August 9, 2004
Reply to Advisory Action of August 3, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

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JW*

Claim 1 (currently amended): A process for rejuvenating a platinum-containing diffusion aluminide coating on a component following deposition of the diffusion aluminide coating and before placing the component in service at an elevated temperature, the diffusion aluminide coating comprising an additive layer on a surface of the component and a diffusion zone below the additive layer and in a surface region of the component, the process comprising the steps of:

treating the diffusion aluminide coating to an aqueous solution consisting essentially of about 50 volume percent nitric acid and about 50 volume percent phosphoric acid at a temperature of about 70°C to about 80°C until at least part of the additive layer has been removed but the diffusion zone remains, thereby establishing a treated surface of the diffusion aluminide coating;

depositing a platinum layer on the treated surface;

heat treating the component to diffuse the platinum layer into the treated surface; and then

aluminizing the treated surface of the component.